

# Celltac $\alpha$

3PD Automated Hematology Analyzer

## First Choice of Every Lab



### MEK 6420P

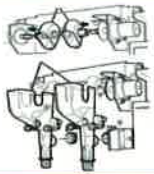
- | Reliable |
- | Compact |
- | Precise |
- | High Speed |

*Fighting Disease with Electronics*

 **NIHON KOHDEN**

# A Reliable Partner in Your Laboratory

- 18 Parameters + 3 Histogram
- High Reproducibility & Accuracy
- Low Sample Volume
- Low Reagent Consumption
- 60 Samples per Hour
- Smart Double Bath Mixing
- Twin Dilution Sampling Nozzle
- Touch Color LCD Display
- QC Management Software
- Serial & USB Interface
- Easy Maintenance



## Double Mixing Mechanism

Sub bath mixing chamber for complete mixing that ensures uniformity of the cells throughout the solution for high reproducibility and accuracy.

## Twin Dedicated Diluting Nozzles

Two dedicated diluting nozzles to avoid carryover and to achieve precise dilution for both the separate chambers RBC/PLT & WBC/Hb.



## Capillary Mode

Direct EDTA capillary mode by just a finger pricking. Only 10 $\mu$ l blood with a least CV% as compare to the normal mode. This is very useful in neonatal & pediatric cases.



## Large Color Touch Display

TFT 5.7" (240 $\times$ 320 pixels) resolution with color touch screen for easy and intuitive operations. Histograms and numerical data can be shown on the same.



## Automatic Clog Removal

To prevent clogging, Celtac removes blood protein and dust particles from the aperture by a high voltage clog shattering electrical pulse after each measurement.



## Get CBC done by just Finger Prick with 10µl Blood only



1

Take sample (10µl)



2

Select Capillary mode



3

Aspirate sample



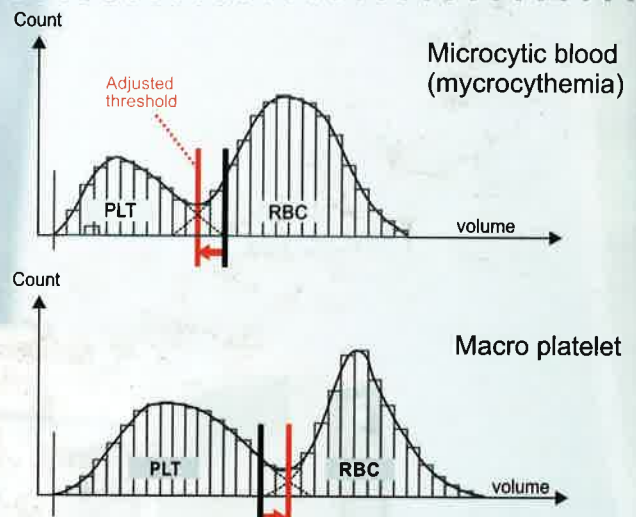
4

Get your result

## Data View cum Flag View



## Floating Threshold for RBC & PLT



## PLT Panic Values Recount

Panic value threshold can be adjusted for recount the sample to achieve more reliable data of cytopenic sample.

## Onscreen Data Editing

Measurement data can be searched by ID, sample type and flags. The results can be printed or deleted. ID can be edited or viewed with detailed data of the searched samples.

## Cyanide-free Reagent

Celltac uses cyanide-free hemolynac • 3N hemolysing reagent for safety and environmental reasons.

## Data Security

A password is required to access the setting menu for calibration coefficient, normal range, quality control, and other items. This helps prevent mishandling and safeguard patient information.

## Selectable Reference

Ranges of each parameter vary in order to different sampling. It can be customize upper and lower limits individually.

## Low Sample Volume

Just 10µL of blood needed for pre-dilution mode. 10 or 20µL blood measurement is available which is especially useful for infants and pediatric samples. \* In normal measurement, 30µL is required.

## Handheld Barcode Reader (optional)

Celltac can use a handheld barcode reader. This assures proper management of different patient's sample.

# Technical Specifications

## PARAMETERS

### WBC COUNT

WBC, LYM%, LYM#, MON#, MON%  
GR#, GR%

### RBC COUNT

RBC, HCT, MCV, RDW, MCH,  
MCHC, HGB

### PLT COUNT

PLT, MPV, PDW, PCT

3 Histograms for WBC, RBC & PLT

## MODES/VOLUME

- Normal mode: 30 $\mu$ l
- High: 10 $\mu$ l or 20 $\mu$ l
- Pre-dilution: 10 $\mu$ l or 20 $\mu$ l
- Capillary Mode: 10 $\mu$ l

## MEASURING METHOD

- Blood cell: Electrical impedance method
- Hemoglobin: photometry by using SLS reagent
- HCT: Histogram Derived
- RDW: Histogram Derived
- PDW: Histogram Derived

## DISPLAY

- 5.7" color touch screen

## DILUTION RATIO

In Normal mode

- for WBC and HB 1:200
- for RBC & PLT 1:40,000

## THROUGHPUT

- 60 Sample/hour (from start to display)

## MEASUREMENT RANGE

In Normal mode

- WBC: 0-99.0 $\times 10^3$ / $\mu$ l
- RBC: 0-14.9 $\times 10^6$ / $\mu$ l
- PLT: 0-1490.0 $\times 10^3$ / $\mu$ l
- HB: 0-29.9 g/dl

*This brochure may be revised or replaced by Nihon Kohden at any time without notice.*

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## PRECISION

- WBC:  $\leq 2.0\%$  at 4.0-9.0 $\times 10^3$ / $\mu$ l
- RBC:  $\leq 1.5\%$  at 5.0 $\times 10^6$ / $\mu$ l
- Hgb:  $\leq 1.5\%$  16.0g/dl
- PLT:  $\leq 4.0\%$  at 3.0 $\times 10^3$ / $\mu$ l
- LY%:  $\leq 5.0\%$  20-45%
- MO%:  $\leq 12.0\%$  2-10%
- GR%:  $\leq 5.0\%$  40-70%

## FLAGS

### WBC

Leukocytosis  
Leukopenia  
Poor hemolysis  
Abnormal MCH  
RBC ghost  
Eosinophilia

### RBC

Anemia  
Anisocytosis  
Microcytosis

### PLT

Thrombocytosis  
Thrombocytopenia  
PLT-RBC interferes

## SOFTWARE INTERFACE

- USB, RS-232C serial port

## QC PROGRAM

- X bar-R, L&J
- X bar-B
- X bar-D.CV

## DIMENSIONS & WEIGHT

- 230 W x 450 D x 383 H (mm)
- Weight-18kg

## POWER SUPPLY

- 220-240V  $\pm 10\%$  AC, 50-60Hz
- Less than 120 VA

## OPERATING ENVIRONMENT

- Temperature: 15-30 $^{\circ}$ C (59-86 $^{\circ}$ F)
- Humidity: 30 to 85%
- Air pressure: 70 to 106 kPa

## DATA STORAGE

Internal storage  
400Numeric+50Histogram.  
It can be expand by  
using 2GB SD card.  
Upto 30,000 (Num.+Histo.)

## REAGENTS

Nihon Kohden genuine Reagents are marketed by Nihon Kohden India Pvt. Ltd. indigenous in state of the art manufacturing facility.

- Isotonac.3
- Cleanac.3
- Cleanac
- Hemolynac.3N

## Over 40 Years of Experience with In Vitro Diagnostic

Nihon Kohden launched its first automatic blood cell counter, MEK-1100 in 1972. Over the years, the models with more extensive and advanced capabilities are continually developed.



Manufactured by:

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